

# Perspective: Significance of Lake Conestee Sediment PAHs Compared to Bramlette MGP Cleanup

Duke Energy Bramlette Rd Manufactured Gas Plant (1917-1952)	Lake Conestee Contaminated Sediment Characteristics
Partial Site Remediation 2000-2003	Site Assessment 2000-2004 – No Removal
<p><b>Processing residuals from MGP works</b></p> <ul style="list-style-type: none"> <li>• Coal oil / coal gas</li> <li>• Coal tar</li> <li>• Polycyclic Aromatic Hydrocarbons (PAHs)</li> <li>• Site Specific Cleanup Standards</li> </ul> <p><i>Sum Carcinogenic PAHs</i> <b>319 ug/kg CPAHs</b></p>	<p><b>Carcinogenic PAHs in LC sediments</b></p> <ul style="list-style-type: none"> <li>• Sum of CPAHs (mean) <b>&gt;4,000 ug/kg</b></li> <li>• <b>&gt;12X</b> Bramlette Rd cleanup standard</li> <li>• <b>3.1 Million Tons</b> of contaminated sediment trapped in LC (<b>91X Bramlette Removal</b>)</li> </ul> <p><b>24,800 lbs of CPAHs = 1,148X Bramlette Remedial Action</b></p>
<p><b>Remedial Action [Soils only. No sediments.]</b></p> <ul style="list-style-type: none"> <li>• Removal of Contaminated Soil, Offsite Treatment</li> <li>• Amount of Contaminated Soils Removed <b>33,944 tons</b> (~21.6 lbs+ CPAHs)</li> <li>• 1,655 truckloads</li> <li>• Taken to SE Soil Recovery, Laurens Co</li> <li>• Thermal Treatment: 2000F to destroy PAHs</li> <li>• Trucked back to Bramlette Rd site for fill</li> <li>• Removal focused on soils in top 3 feet</li> </ul>	<p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• PAHs are Ecological &amp; Human Health Risk Driver for LC</li> <li>• LC Remedy is <b>Monitored Natural Recovery</b></li> <li>• Dependent on <b>containment by LC Dam</b> as 'Waste Containment Structure'</li> <li>• <b>Uncontrolled Release of contaminated sediments from LC – Jun 2000-Jun 2001</b> <ul style="list-style-type: none"> <li>○ <b>128,250 tons</b></li> <li>○ <b>1,026 lbs of CPAHs</b> released downriver</li> </ul> </li> </ul>

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